131

131

[3]

[5]

## GAUTENG DEPARTMENT OF EDUCATION PREPARATORY EXAMINATON

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MATHEMATICS (First Paper)

#### MEMORANDUM

QUESTION 1 [14]

SIGNATURE

1.1 
$$x(x+2) = 0$$
  
 $x = 0$  or  $x = -2$ 

1.2 
$$x \le -2$$
 or  $x \ge 0$ ; with  $x > 0$   
 $\therefore x > 0$ 

1.3 
$$x = \frac{-(-3) \pm \sqrt{(-3)^9 - 4(2)(-7)}}{2(2)}$$
$$x = \frac{3 \pm \sqrt{65}}{4}$$
$$x = 2.77 \quad \text{or} \quad x = -1.27$$

1.4 
$$1 + 2^{x-2} + 2^{x-1} + 2^x = 53$$
$$2^x (2^{-2} + 2 + 1) = 52$$
$$2^x = 16$$
$$x = 4$$

QUESTION 2 [10]

2.1.1 
$$(x + 1)^2 - 4 = 16$$
  
 $(x + 1)^2 = 20$   
 $x + 1 = \pm \sqrt{20}$   
 $x = \pm 2\sqrt{5} - 1$  OR  
 $(x + 1)^2 - 4 = 16$   
 $x^2 + 2x - 19 = 0$   
 $x = \frac{-2 \pm \sqrt{(2)^2 - 4(-19)}}{2}$   
 $x = \pm 2\sqrt{5} - 1$ 

$$2.1.2 k = 0$$

1A factorizing 2 CA for each answer

2CA for each inequality (-1) if '<' is used 1CA for selecting correct inequality Full marks for answer only.

 $\frac{2}{3}$  if left in surd form

1A for 2° = 1 1A for factorizing 1A for RHS 1CA 1CA

LA

[5]

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## **Table of Contents Gauteng Prelim Memo For Paper 2014**

- 1. Understanding the eBook Gauteng Prelim Memo For Paper 2014
  - The Rise of Digital Reading Gauteng Prelim Memo For Paper2014
  - $\circ\,$  Advantages of eBooks Over Traditional Books
- 2. Identifying Gauteng Prelim Memo For Paper 2014
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - $\circ\,$  Features to Look for in an Gauteng Prelim Memo For Paper2014
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Gauteng Prelim Memo For Paper 2014
  - Personalized Recommendations
  - Gauteng Prelim Memo For Paper2014 User Reviews and Ratings
  - Gauteng Prelim Memo For Paper2014 and Bestseller Lists
- 5. Accessing Gauteng Prelim Memo For Paper2014 Free and Paid eBooks
  - Gauteng Prelim Memo For Paper2014 Public Domain eBooks
  - Gauteng Prelim Memo For Paper2014 eBook Subscription Services

- Gauteng Prelim Memo For Paper2014 Budget-Friendly Options
- 6. Navigating Gauteng Prelim Memo For Paper2014 eBook Formats
  - o ePub, PDF, MOBI, and More
  - Gauteng Prelim Memo For Paper2014 Compatibility with Devices
  - Gauteng Prelim Memo For Paper2014 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Gauteng Prelim Memo For Paper2014
  - Highlighting and Note-Taking Gauteng Prelim Memo For Paper 2014
  - Interactive Elements Gauteng Prelim Memo For Paper 2014
- 8. Staying Engaged with Gauteng Prelim Memo For Paper 2014
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Gauteng Prelim Memo For Paper2014
- 9. Balancing eBooks and Physical Books Gauteng Prelim Memo For Paper2014
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Gauteng Prelim Memo For Paper2014
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Gauteng Prelim Memo For Paper 2014
  - Setting Reading Goals Gauteng Prelim Memo For Paper2014
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Gauteng Prelim Memo For Paper 2014
  - Fact-Checking eBook Content of Gauteng Prelim Memo For Paper2014
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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